

# GOMOS Daily Report 31-OCT-2009

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	02NOV2009 04:34:10
Data source version	GOMOS/5.00L03
Start time of products	31OCT2009 00:07:51
Stop time of products	31OCT2009 23:51:34
Store outputs in DB	Yes
Nb of level 1b prods	106
Nb of prods with errors	0

## 2. Summary of products arrived in PCF (Product Control Facility)

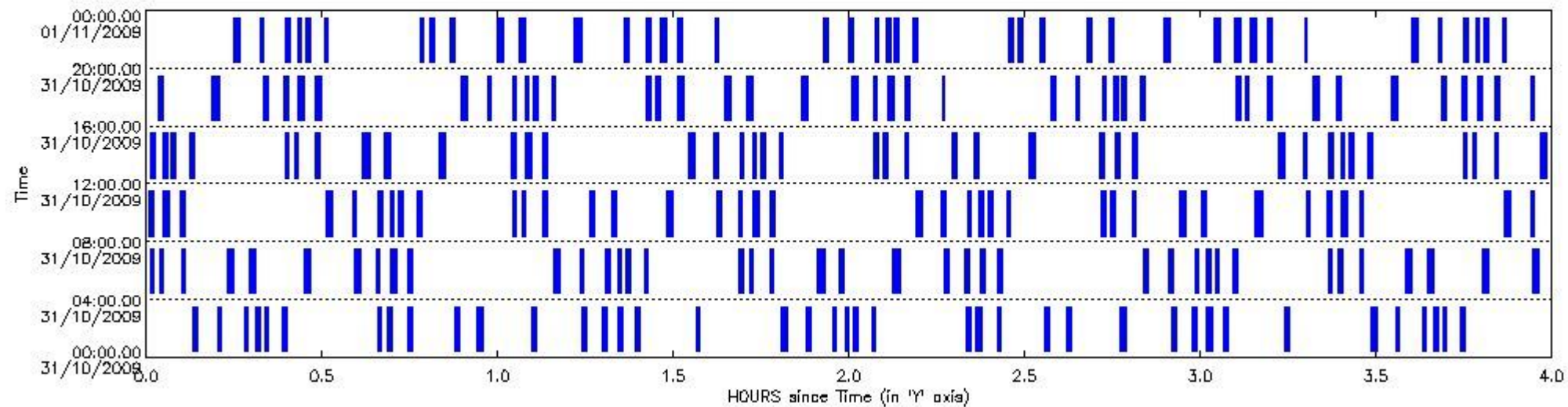
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



### 2.3 Summary of missing occultations (red segments in previous plot)

No missing products.

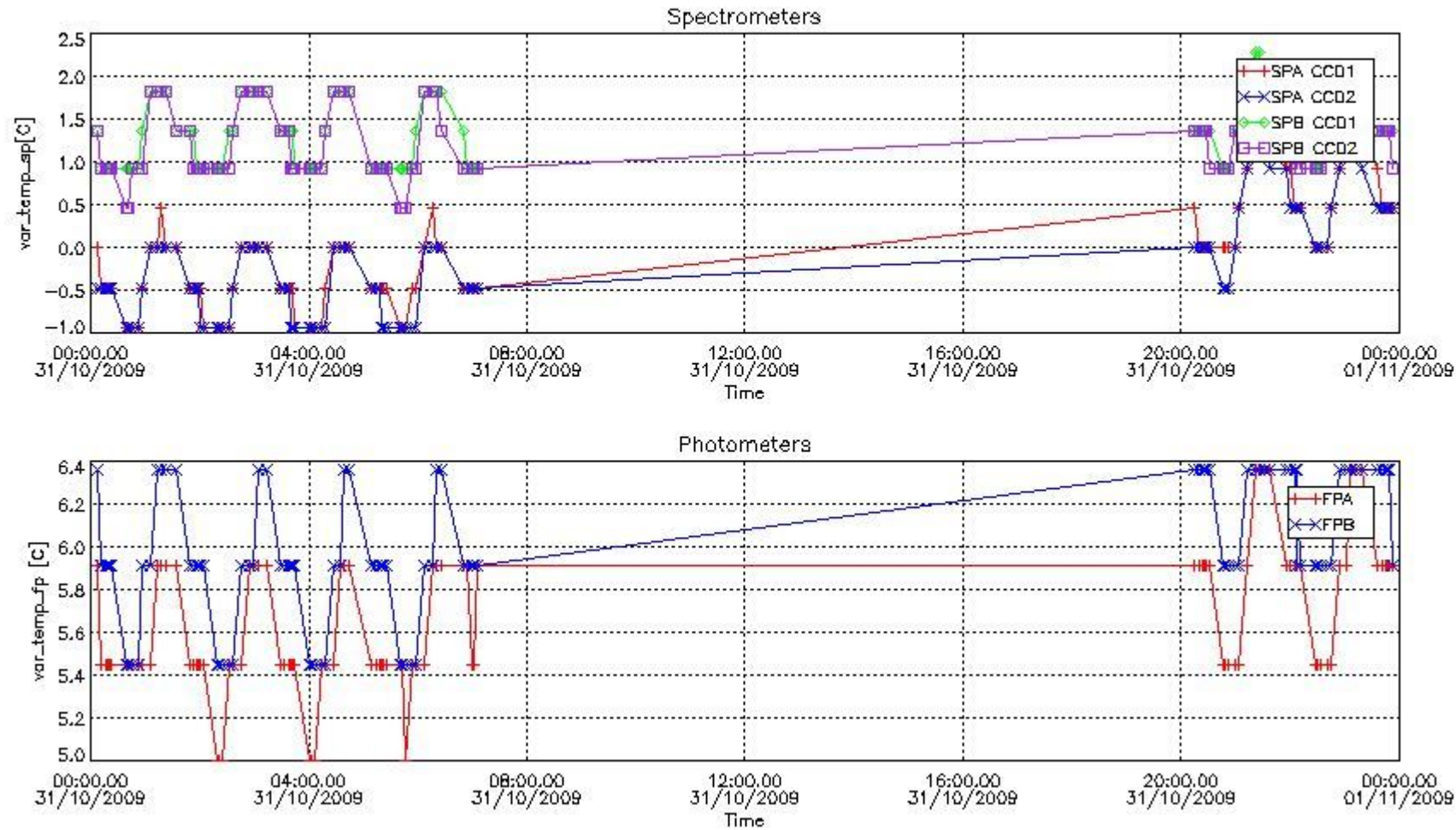
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091031_000751_000000592083_00460_40093_2291.N1	31-OCT-2009 00:07:51	Bright	59.000	94	92Alp Cet	2.5260	3100.0	118	40093	No
2	GOM_TRA_1PNPDE20091031_001212_000000402083_00460_40093_2292.N1	31-OCT-2009 00:12:12	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	40093	No
3	GOM_TRA_1PNPDE20091031_001639_000000402083_00460_40093_2293.N1	31-OCT-2009 00:16:39	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	40093	No
4	GOM_TRA_1PNPDE20091031_001841_000000392083_00460_40093_2294.N1	31-OCT-2009 00:18:41	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40093	No
5	GOM_TRA_1PNPDE20091031_002008_000000462083_00460_40093_2295.N1	31-OCT-2009 00:20:08	Bright	46.000	79	26Bet Per	2.3100	13100.	92	40093	No
6	GOM_TRA_1PNPDE20091031_002318_000000392083_00460_40093_2296.N1	31-OCT-2009 00:23:18	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	40093	No
7	GOM_TRA_1PNPDE20091031_003929_000000392083_00460_40093_2297.N1	31-OCT-2009 00:39:29	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40093	No
8	GOM_TRA_1PNPDE20091031_004106_000000562083_00460_40093_2298.N1	31-OCT-2009 00:41:06	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	40093	No
9	GOM_TRA_1PNPDE20091031_004445_000000392083_00460_40093_2299.N1	31-OCT-2009 00:44:45	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	40093	No
10	GOM_TRA_1PNPDE20091031_005239_000000562083_00460_40093_2300.N1	31-OCT-2009 00:52:39	Bright	55.500	166	17Eps Leo	2.9800	6000.0	111	40093	No
11	GOM_TRA_1PNPDE20091031_005625_000000562083_00460_40093_2301.N1	31-OCT-2009 00:56:25	Bright	56.000	22	32Alp Leo	1.3600	15200.	112	40093	No
12	GOM_TRA_1PNPDE20091031_010539_000000582083_00460_40093_2294.N1	31-OCT-2009 01:05:39	Dark	58.000	48	30Alp Hya	1.9770	4100.0	116	40093	No



72	GOM_TRA_1PNPDE20091031_202549_000000422083_00472_40105_2349.N1	31-OCT-2009 20:25:49	Bright	41.500	73	57Gam1And	2.2600	13100.	83	40105	No
73	GOM_TRA_1PNPDE20091031_202711_000000462083_00472_40105_2350.N1	31-OCT-2009 20:27:11	Bright	46.000	79	26Bet Per	2.3100	13100.	92	40105	No
74	GOM_TRA_1PNPDE20091031_203023_000000432083_00472_40105_2351.N1	31-OCT-2009 20:30:23	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	40105	No
75	GOM_TRA_1PNPDE20091031_204639_000000412083_00472_40105_2352.N1	31-OCT-2009 20:46:39	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40105	No
76	GOM_TRA_1PNPDE20091031_204816_000000562083_00472_40105_2353.N1	31-OCT-2009 20:48:16	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	40105	No
77	GOM_TRA_1PNPDE20091031_205157_000000392083_00472_40105_2354.N1	31-OCT-2009 20:51:57	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	40105	No
78	GOM_TRA_1PNPDE20091031_205956_000000562083_00472_40105_2355.N1	31-OCT-2009 20:59:56	Bright	55.500	166	17Eps Leo	2.9800	6000.0	111	40105	No
79	GOM_TRA_1PNPDE20091031_210344_000000562083_00472_40105_2352.N1	31-OCT-2009 21:03:44	Bright	56.000	22	32Alp Leo	1.3600	15200.	112	40105	No
80	GOM_TRA_1PNPDE20091031_211306_000000722083_00472_40105_2353.N1	31-OCT-2009 21:13:06	Dark	72.000	48	30Alp Hya	1.9770	4100.0	144	40105	No
81	GOM_TRA_1PNPDE20091031_212142_000000502083_00472_40105_2354.N1	31-OCT-2009 21:21:42	Dark	50.000	65	Lam Vel	2.2040	4400.0	100	40105	No
82	GOM_TRA_1PNPDE20091031_212519_000000472083_00473_40106_2355.N1	31-OCT-2009 21:25:19	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40106	No
83	GOM_TRA_1PNPDE20091031_213046_000000522083_00473_40106_2356.N1	31-OCT-2009 21:30:46	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	40106	No
84	GOM_TRA_1PNPDE20091031_213710_000000272083_00473_40106_2357.N1	31-OCT-2009 21:37:10	Dark	27.000	108	Alp Col	2.6520	15200.	54	40106	No
85	GOM_TRA_1PNPDE20091031_215534_000000582083_00473_40106_2358.N1	31-OCT-2009 21:55:34	Tw_i_and_stray	57.500	94	92Alp Cet	2.5260	3100.0	115	40106	No
86	GOM_TRA_1PNPDE20091031_215956_000000392083_00473_40106_2359.N1	31-OCT-2009 21:59:56	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	40106	No
87	GOM_TRA_1PNPDE20091031_220422_000000402083_00473_40106_2360.N1	31-OCT-2009 22:04:22	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	40106	No
88	GOM_TRA_1PNPDE20091031_220624_000000412083_00473_40106_2361.N1	31-OCT-2009 22:06:24	Bright	41.000	73	57Gam1And	2.2600	13100.	82	40106	No
89	GOM_TRA_1PNPDE20091031_220746_000000462083_00473_40106_2362.N1	31-OCT-2009 22:07:46	Bright	46.000	79	26Bet Per	2.3100	13100.	92	40106	No
90	GOM_TRA_1PNPDE20091031_221058_000000402083_00473_40106_2363.N1	31-OCT-2009 22:10:58	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	40106	No
91	GOM_TRA_1PNPDE20091031_222715_000000422083_00473_40106_2364.N1	31-OCT-2009 22:27:15	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	40106	No
92	GOM_TRA_1PNPDE20091031_222852_000000412083_00473_40106_2365.N1	31-OCT-2009 22:28:52	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	40106	No
93	GOM_TRA_1PNPDE20091031_223232_000000562083_00473_40106_2366.N1	31-OCT-2009 22:32:32	Bright	56.000	174	52Psi UMa	3.0040	4400.0	112	40106	No
94	GOM_TRA_1PNPDE20091031_224032_000000542083_00473_40106_2367.N1	31-OCT-2009 22:40:32	Bright	54.000	166	17Eps Leo	2.9800	6000.0	108	40106	No
95	GOM_TRA_1PNPDE20091031_224420_000000572083_00473_40106_2368.N1	31-OCT-2009 22:44:20	Bright	57.000	22	32Alp Leo	1.3600	15200.	114	40106	No
96	GOM_TRA_1PNPDE20091031_225344_000000682083_00473_40106_2361.N1	31-OCT-2009 22:53:44	Dark	68.000	48	30Alp Hya	1.9770	4100.0	136	40106	No
97	GOM_TRA_1PNPDE20091031_230219_000000592083_00473_40106_2362.N1	31-OCT-2009 23:02:19	Dark	59.000	65	Lam Vel	2.2040	4400.0	118	40106	No
98	GOM_TRA_1PNPDE20091031_230556_000000542083_00474_40107_2363.N1	31-OCT-2009 23:05:56	Dark	54.000	34	Gam2Vel	1.7930	23000.	108	40107	No
99	GOM_TRA_1PNPDE20091031_231123_000000482083_00474_40107_2364.N1	31-OCT-2009 23:11:23	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40107	No
100	GOM_TRA_1PNPDE20091031_231747_000000272083_00474_40107_2365.N1	31-OCT-2009 23:17:47	Dark	27.000	108	Alp Col	2.6520	15200.	54	40107	No
101	GOM_TRA_1PNPDE20091031_233609_000000582083_00474_40107_2366.N1	31-OCT-2009 23:36:09	Tw_i_and_stray	58.000	94	92Alp Cet	2.5260	3100.0	116	40107	No
102	GOM_TRA_1PNPDE20091031_234032_000000382083_00474_40107_2367.N1	31-OCT-2009 23:40:32	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	40107	No
103	GOM_TRA_1PNPDE20091031_234458_000000392083_00474_40107_2368.N1	31-OCT-2009 23:44:58	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40107	No
104	GOM_TRA_1PNPDE20091031_234700_000000372083_00474_40107_2369.N1	31-OCT-2009 23:47:00	Bright	37.000	73	57Gam1And	2.2600	13100.	74	40107	No
105	GOM_TRA_1PNPDE20091031_234822_000000462083_00474_40107_2370.N1	31-OCT-2009 23:48:22	Bright	45.500	79	26Bet Per	2.3100	13100.	91	40107	No
106	GOM_TRA_1PNPDE20091031_235134_000000432083_00474_40107_2371.N1	31-OCT-2009 23:51:34	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	40107	No

### 3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



#### 4. Overview of dark signal processing per product

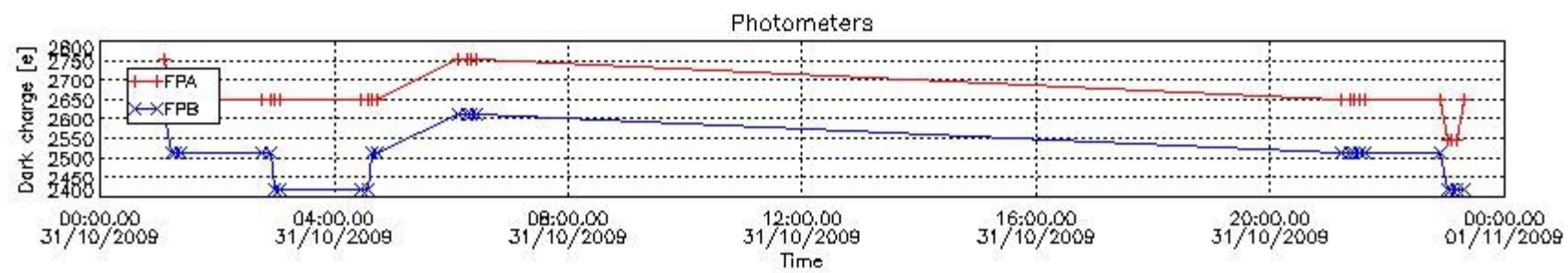
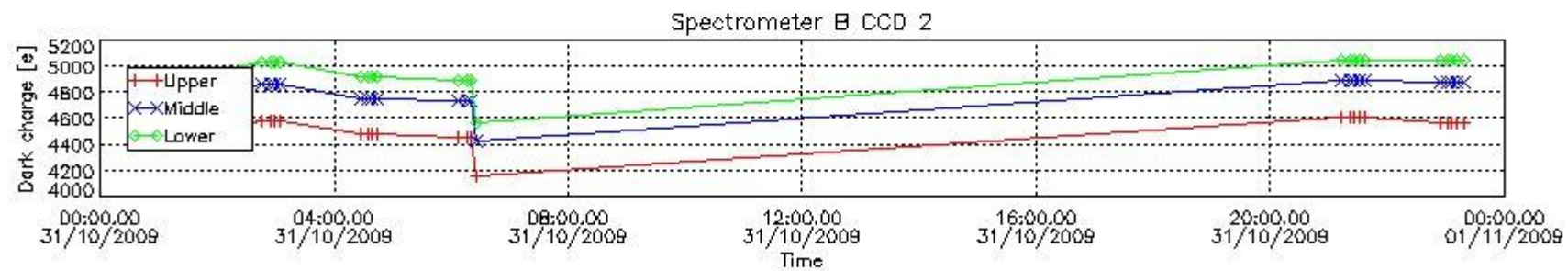
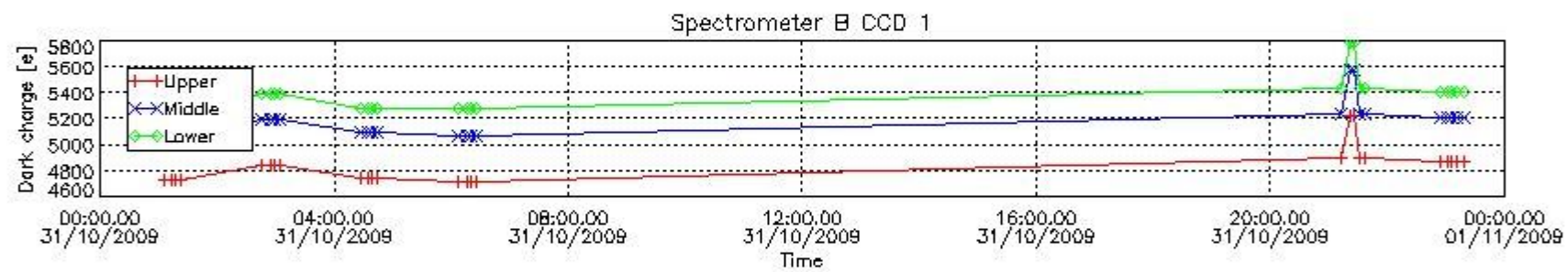
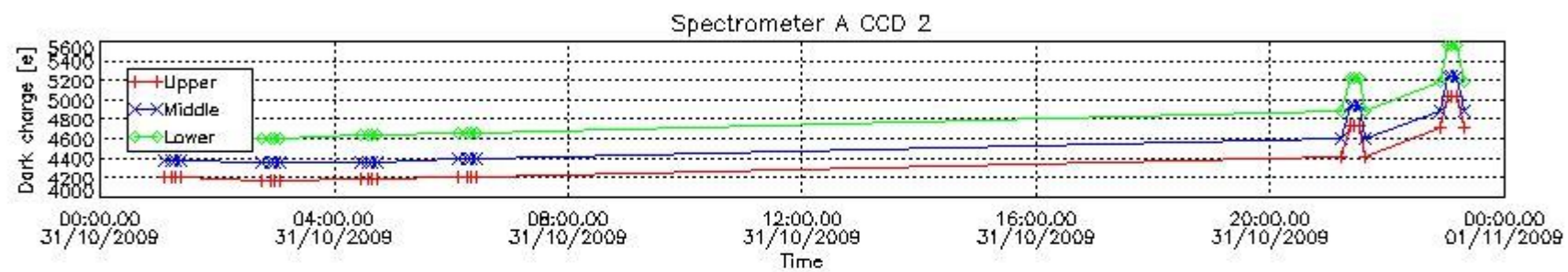
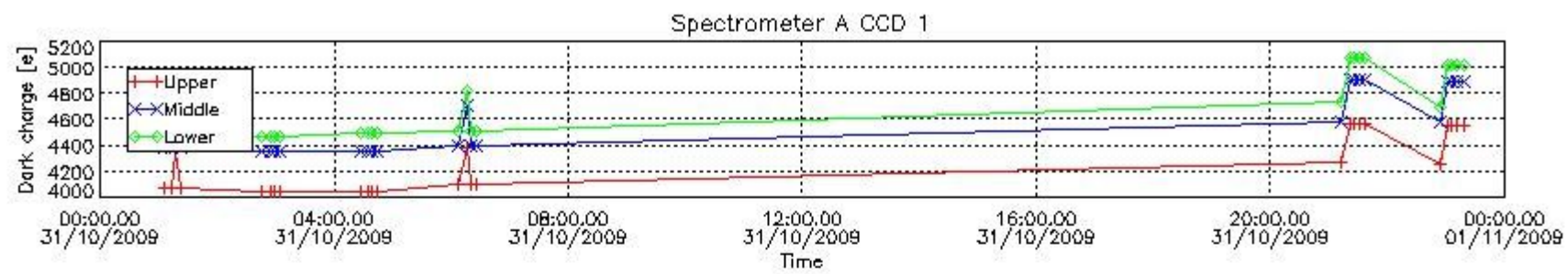
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20091031_201458_000000602083_00472_40105_2346.N1	DC map used
GOM_TRA_1PNPDE20091031_201921_000000382083_00472_40105_2347.N1	DC map used
GOM_TRA_1PNPDE20091031_202347_000000412083_00472_40105_2348.N1	DC map used
GOM_TRA_1PNPDE20091031_202549_000000422083_00472_40105_2349.N1	DC map used
GOM_TRA_1PNPDE20091031_202711_000000462083_00472_40105_2350.N1	DC map used
GOM_TRA_1PNPDE20091031_203023_000000432083_00472_40105_2351.N1	DC map used
GOM_TRA_1PNPDE20091031_204639_000000412083_00472_40105_2352.N1	DC map used
GOM_TRA_1PNPDE20091031_204816_000000562083_00472_40105_2353.N1	DC map used
GOM_TRA_1PNPDE20091031_205157_000000392083_00472_40105_2354.N1	DC map used
GOM_TRA_1PNPDE20091031_205956_000000562083_00472_40105_2355.N1	DC map used

##### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



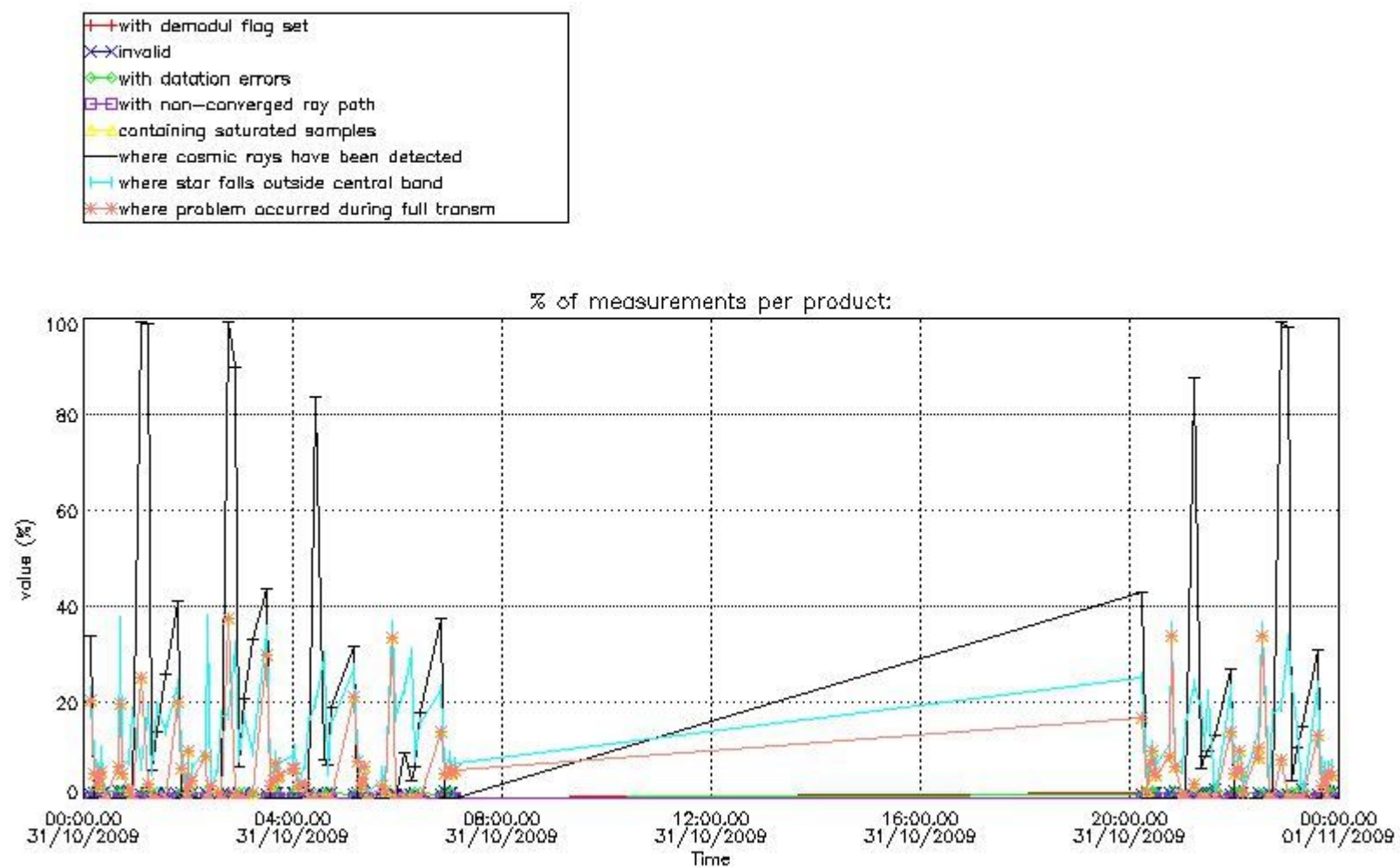
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

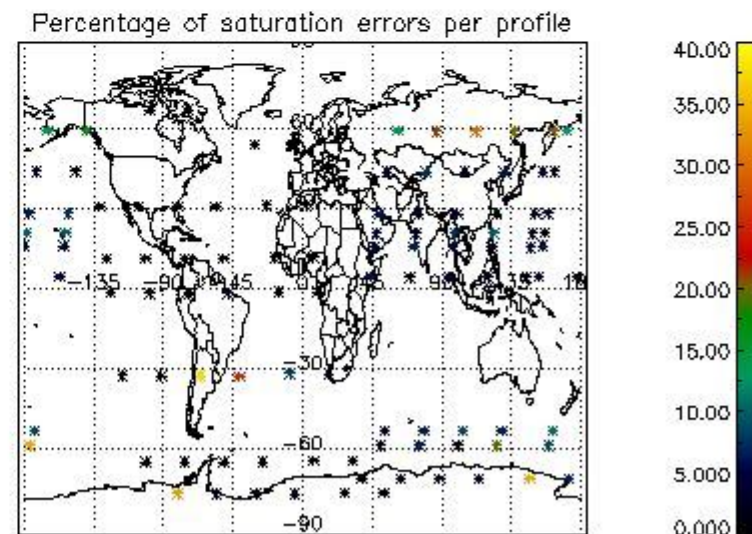
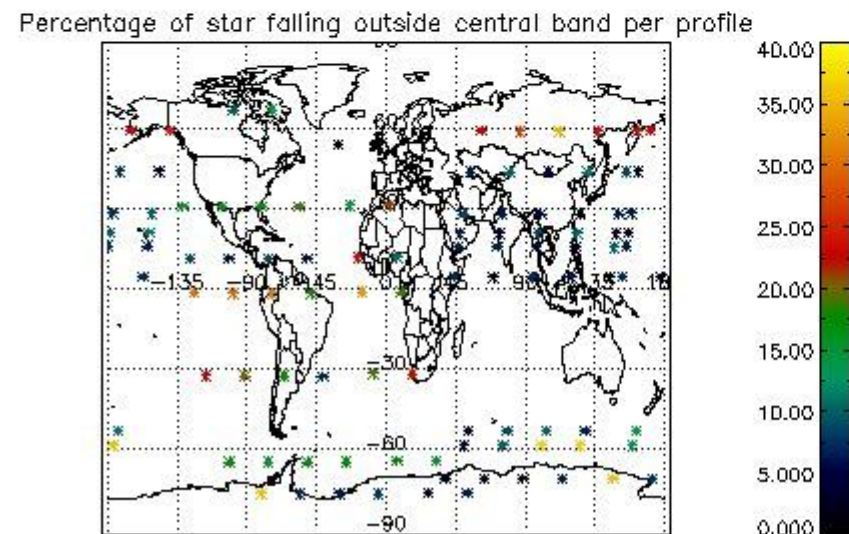
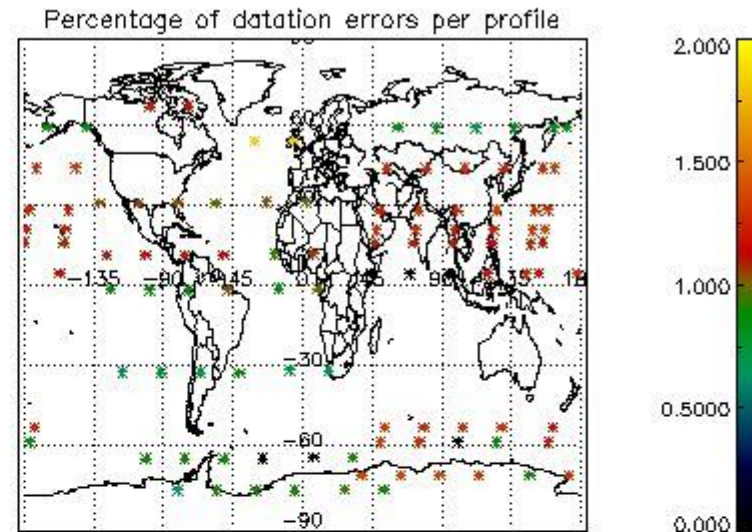
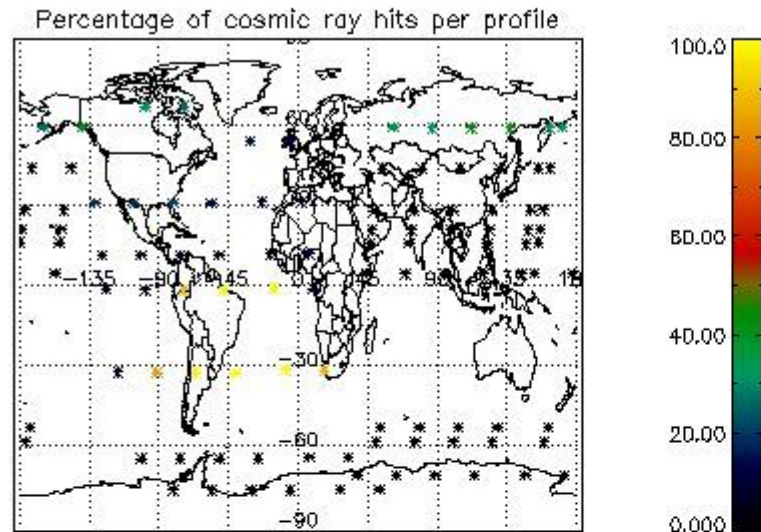
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.3585 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

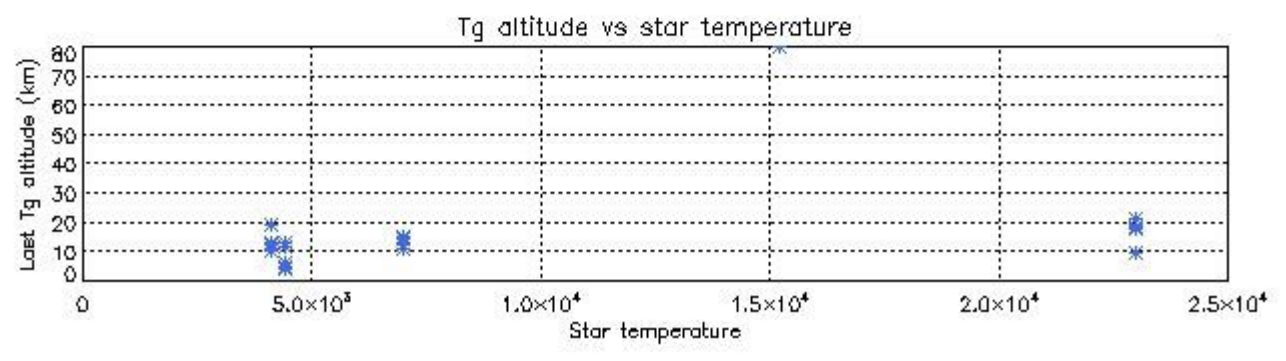
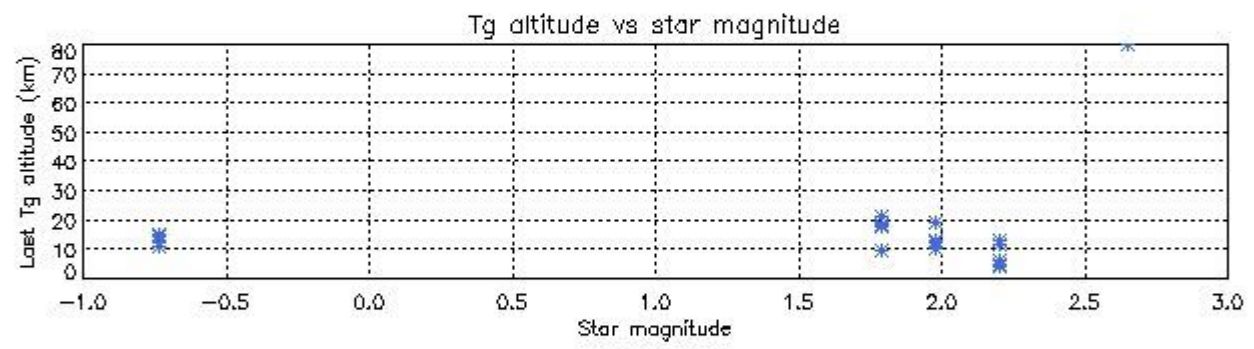
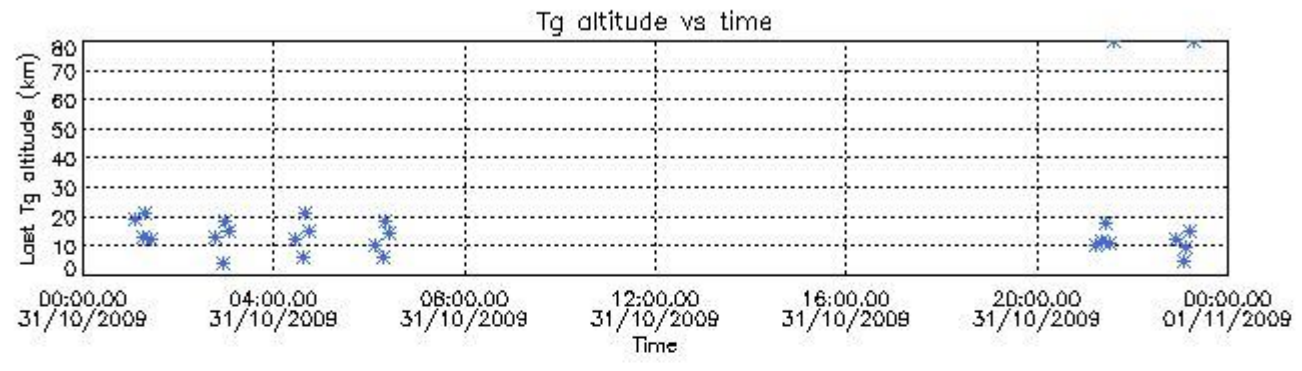
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.216	18.212	NaN
St. deviation:	18.696	5.5774	NaN
Maximum:	79.749	26.788	NaN
Minimum:	4.4420	3.5074	NaN
Number of data:	26.000	74.000	NaN

### 6.2 Plot for DARK limb products

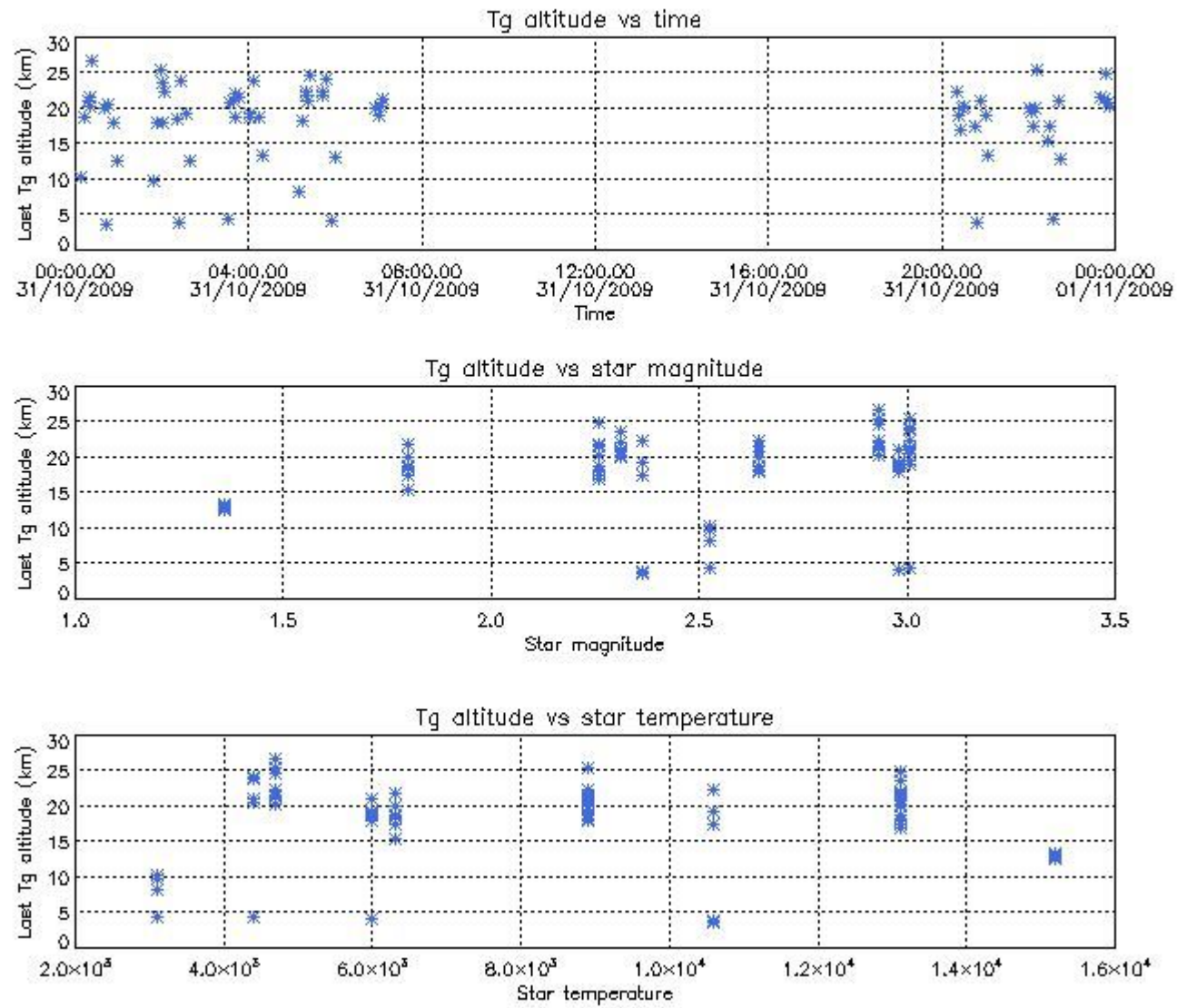


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

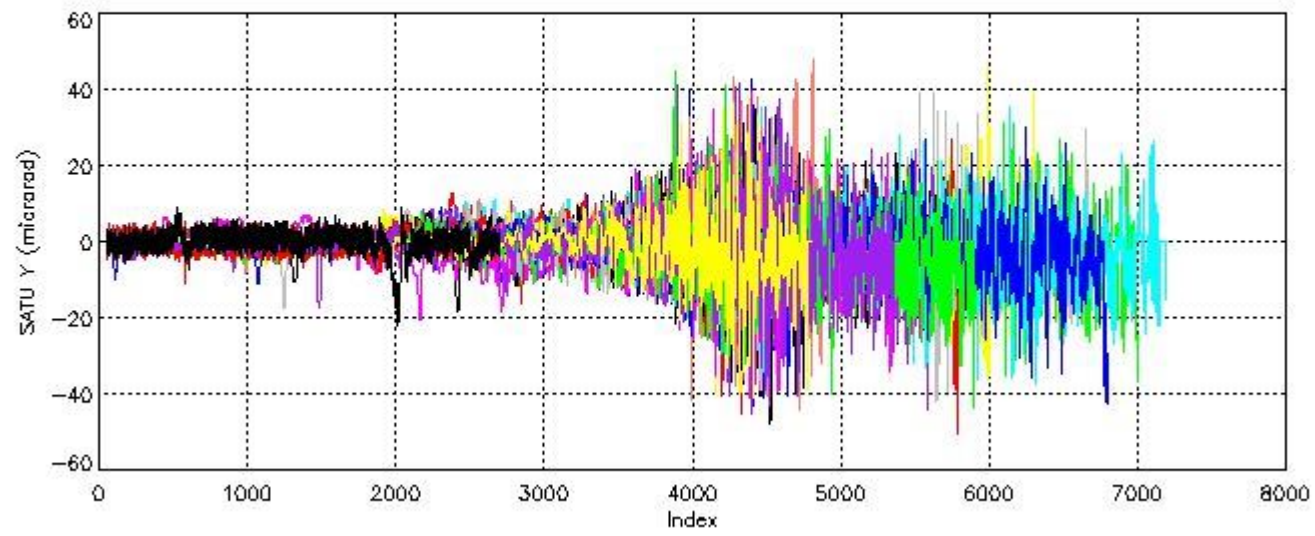
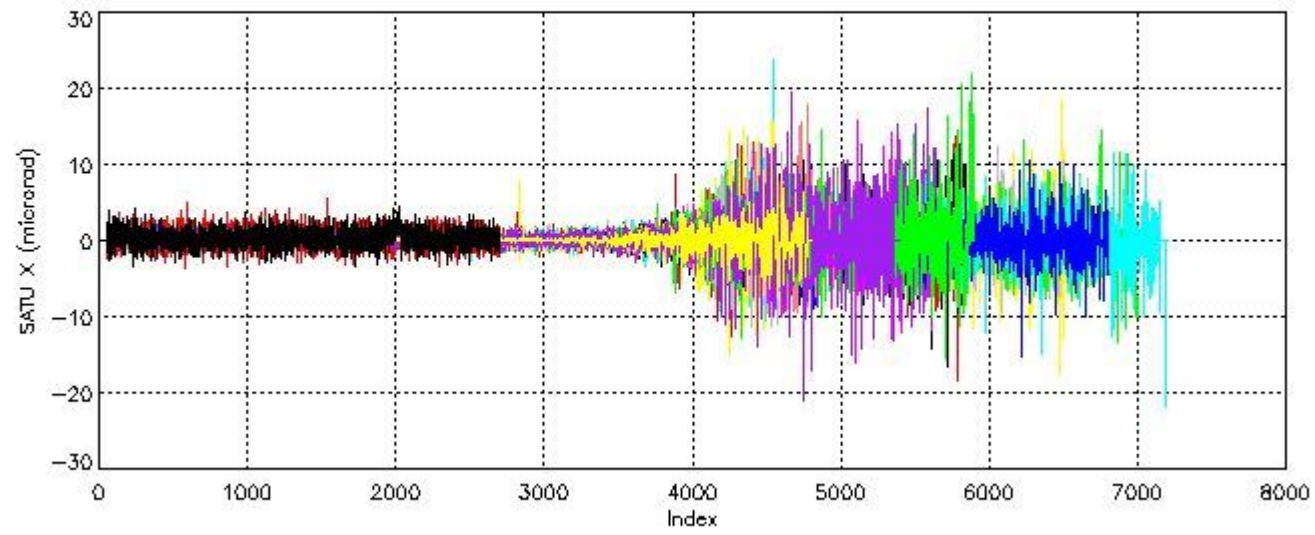


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.22815	-0.040877	0.19254	-0.25948
St. deviation:	0.37181	1.3399	0.83053	1.8467
Maximum:	5.0000	8.7000	6.2000	10.900
Minimum:	-3.8000	-17.500	-5.3000	-15.700

Number of data:	29800.	29800.	73500.	73500.
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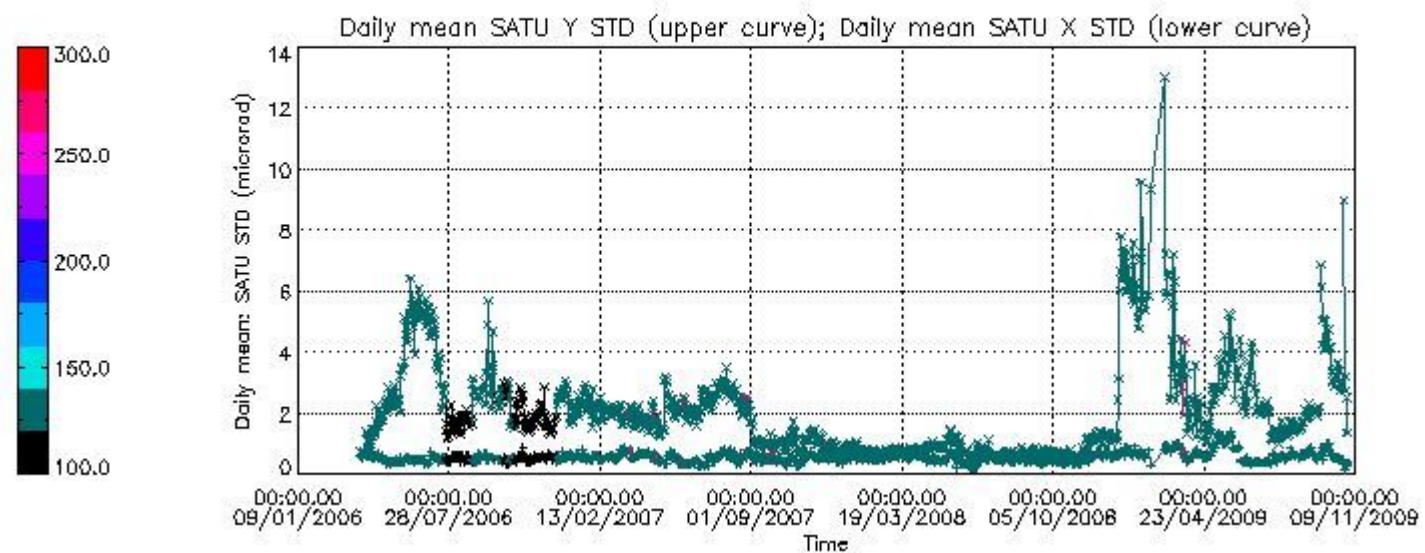
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

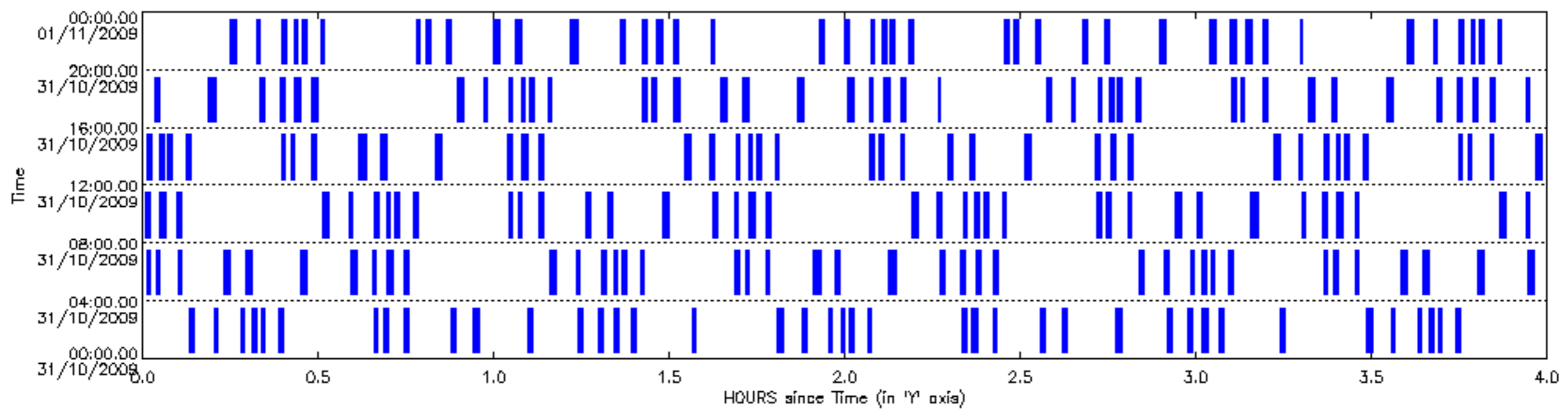
Lower curve: STD of SATU X axis

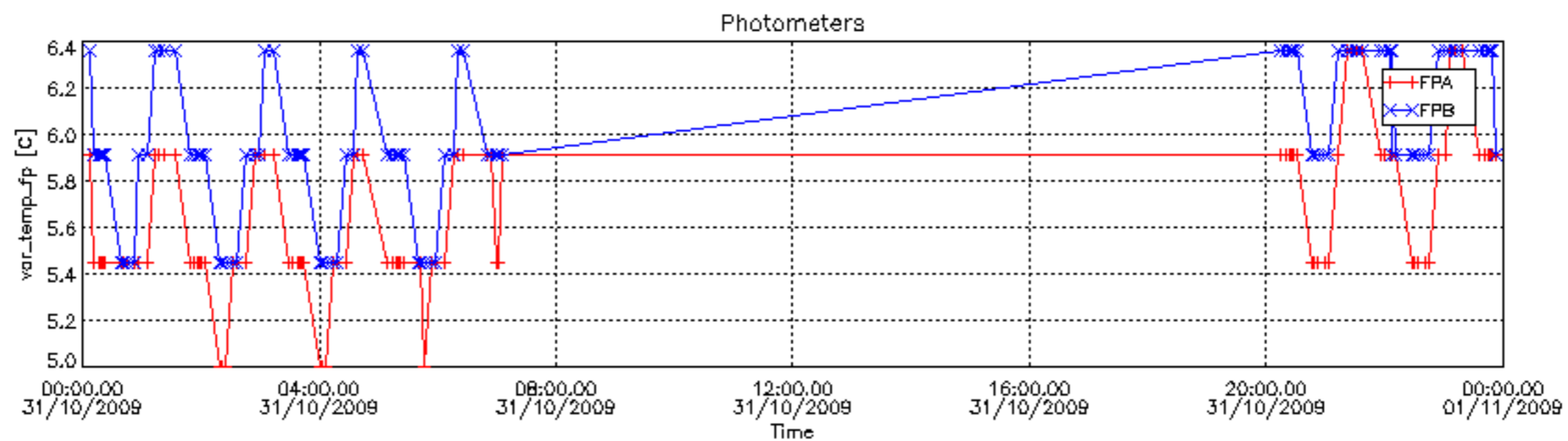
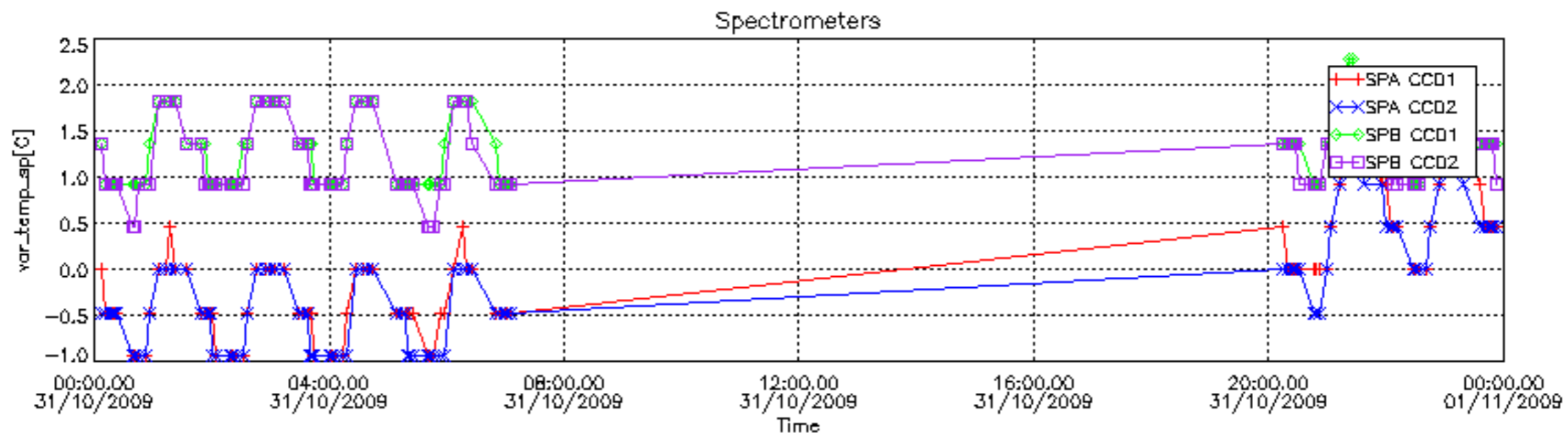


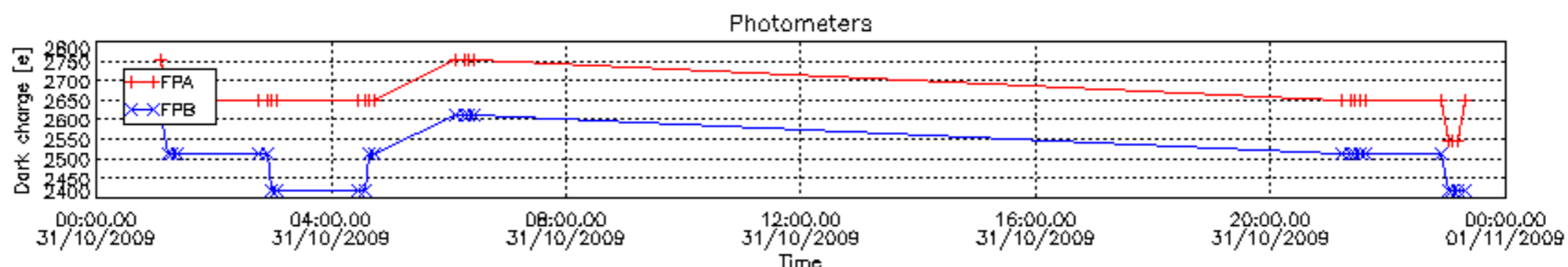
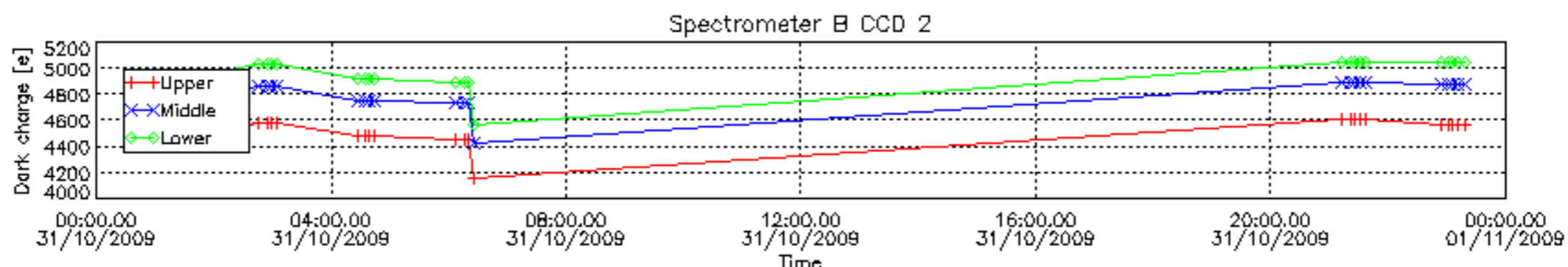
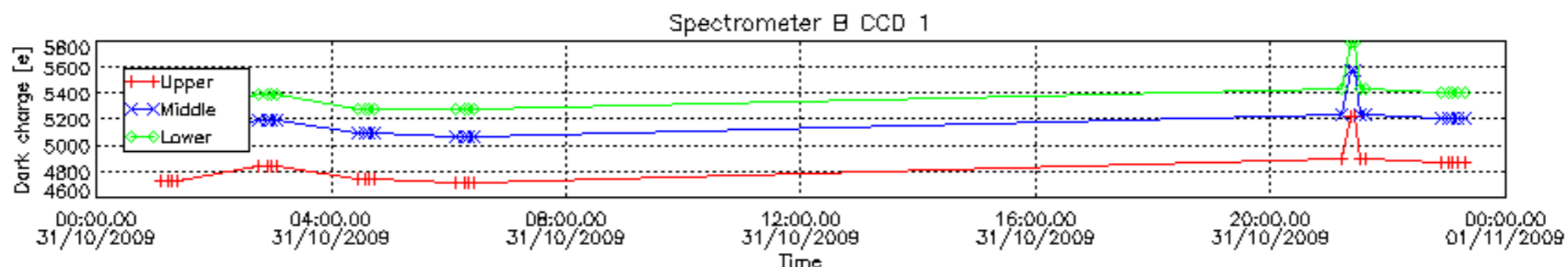
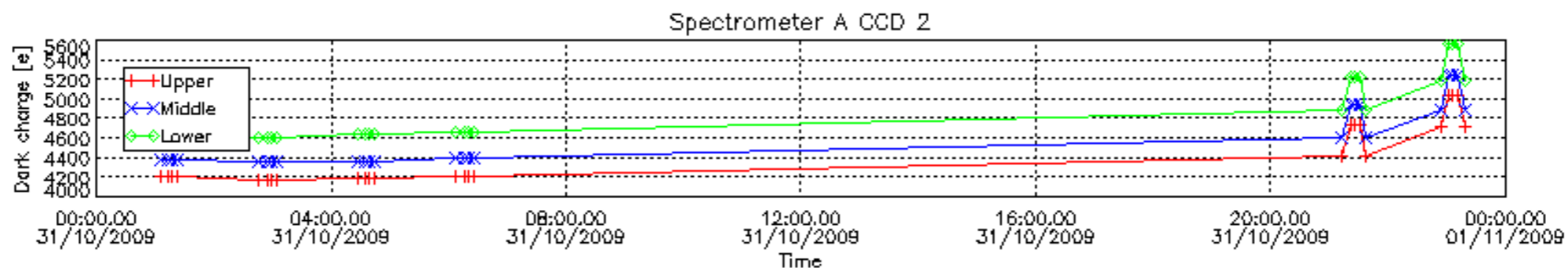
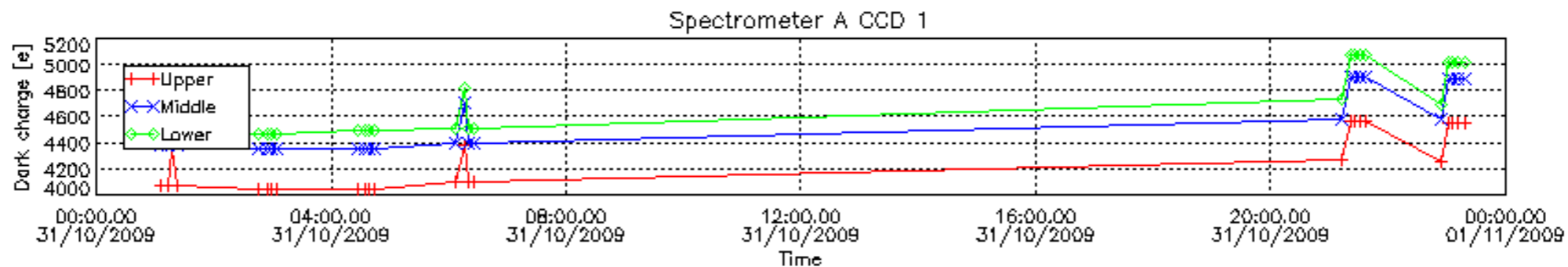
### 8. Auxiliary Data Files used for the production reported in section 2.4

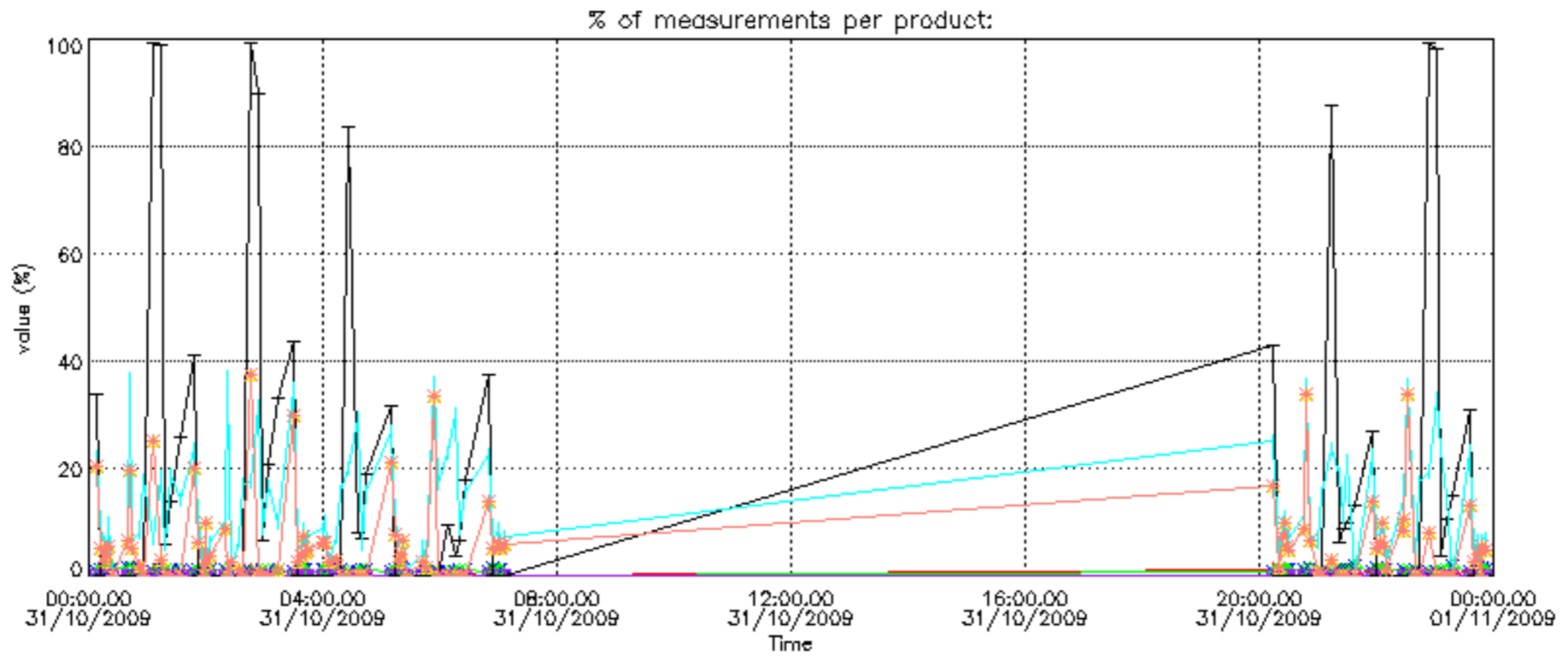
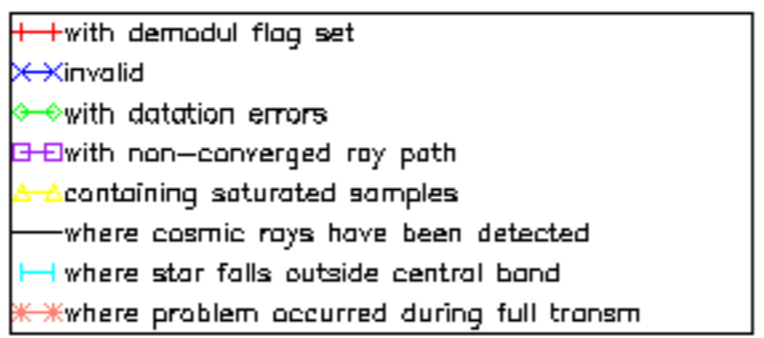
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	31-OCT-2009 00:07:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091029_082046_20091027_000000_20100101_000000	1	31-OCT-2009 00:07:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	31-OCT-2009 00:07:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	31-OCT-2009 00:07:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	31-OCT-2009 00:07:51
ECMWF_FILE	AUX_ECF_AXNECM20091030_064111_20091030_210000_20091031_090000	1	31-OCT-2009 00:07:51
ECMWF_FILE	AUX_ECF_AXNECM20091030_182113_20091031_030000_20091031_150000	39	31-OCT-2009 04:00:41
ECMWF_FILE	AUX_ECA_AXNECM20091031_062112_20091030_210000_20091031_090000	54	31-OCT-2009 05:41:17
ECMWF_FILE	AUX_ECF_AXNECM20091031_064112_20091031_150000_20091101_030000	69	31-OCT-2009 20:14:58
ECMWF_FILE	AUX_ECF_AXNECM20091031_064113_20091031_210000_20091101_090000	79	31-OCT-2009 21:03:44
OPTIONAL_ECMWF_FILE	MISSING	1	31-OCT-2009 00:07:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091030_231659_000057382083_00459_40092_9070.N1	1	31-OCT-2009 00:07:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091031_005756_000047822083_00460_40093_9071.N1	12	31-OCT-2009 01:05:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091031_022257_000051012083_00461_40094_9072.N1	25	31-OCT-2009 02:25:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091031_035316_000057382083_00462_40095_9073.N1	39	31-OCT-2009 04:00:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091031_053413_000057382083_00463_40096_9074.N1	54	31-OCT-2009 05:41:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091031_195457_000035072083_00472_40105_9075.N1	69	31-OCT-2009 20:14:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091031_205843_000060572083_00472_40105_9076.N1	79	31-OCT-2009 21:03:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091031_224458_000057382083_00473_40106_9077.N1	96	31-OCT-2009 22:53:44



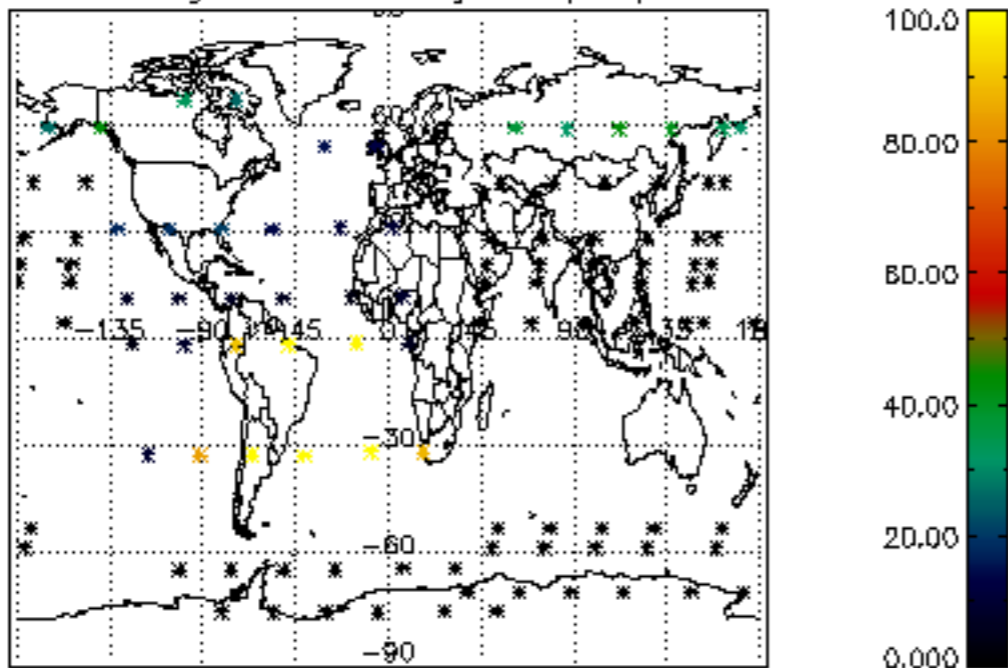




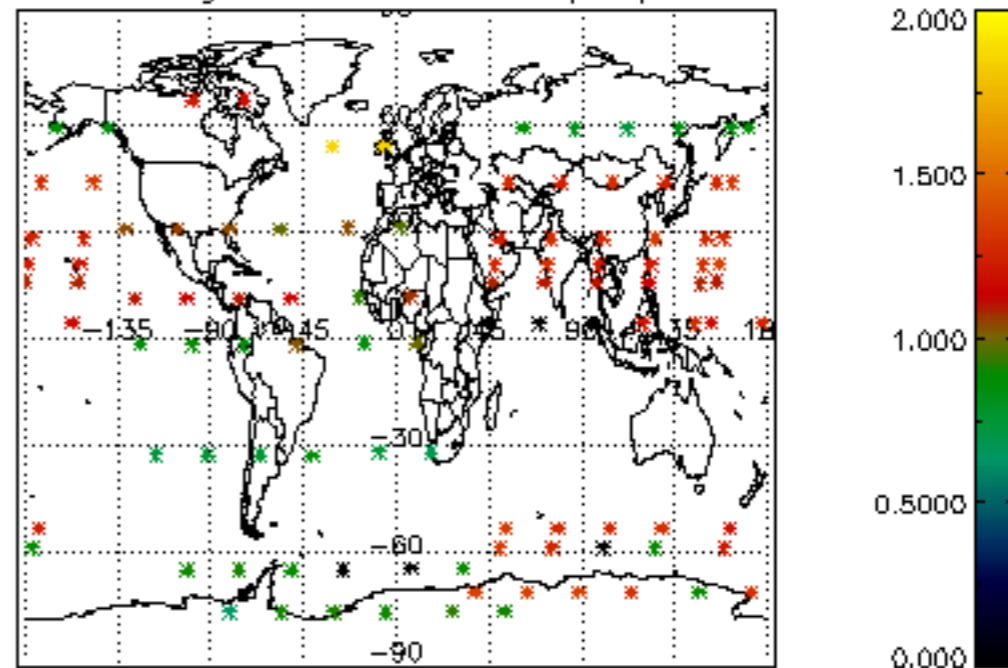




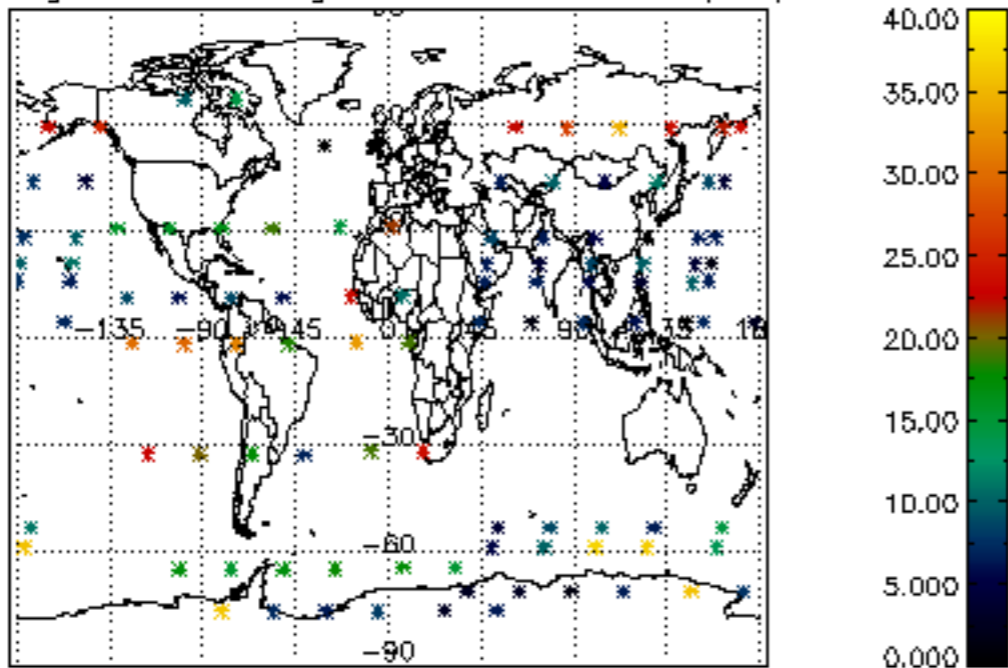
Percentage of cosmic ray hits per profile



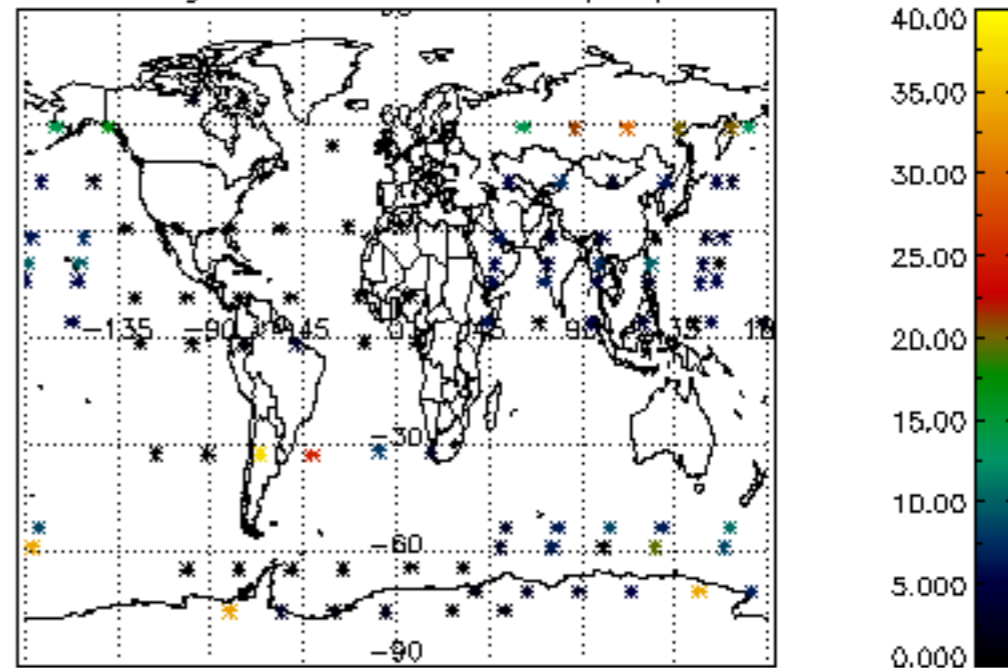
Percentage of datation errors per profile



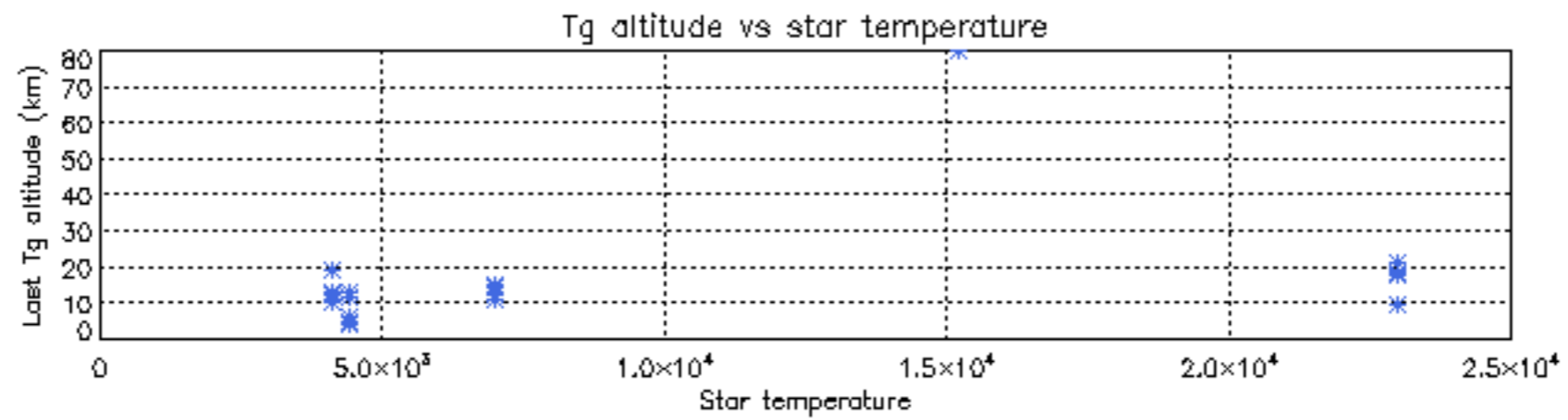
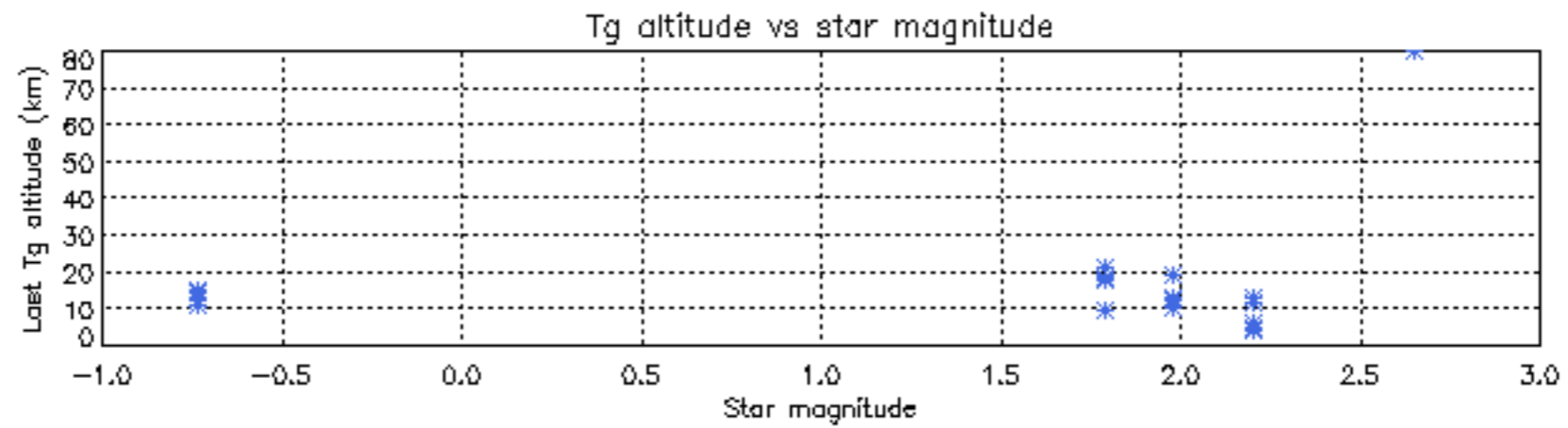
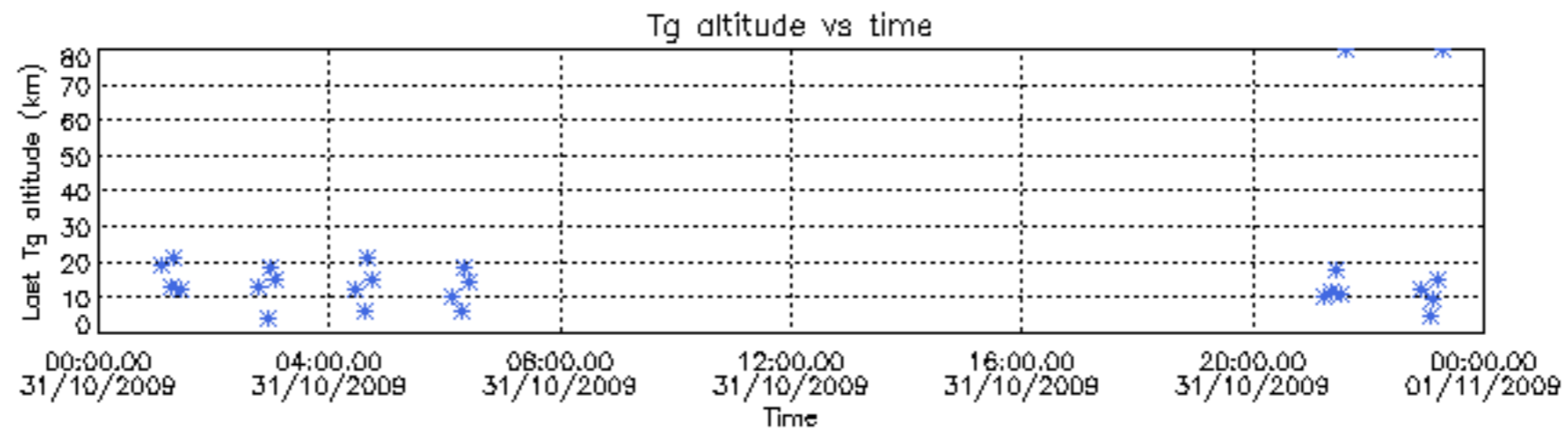
Percentage of star falling outside central band per profile



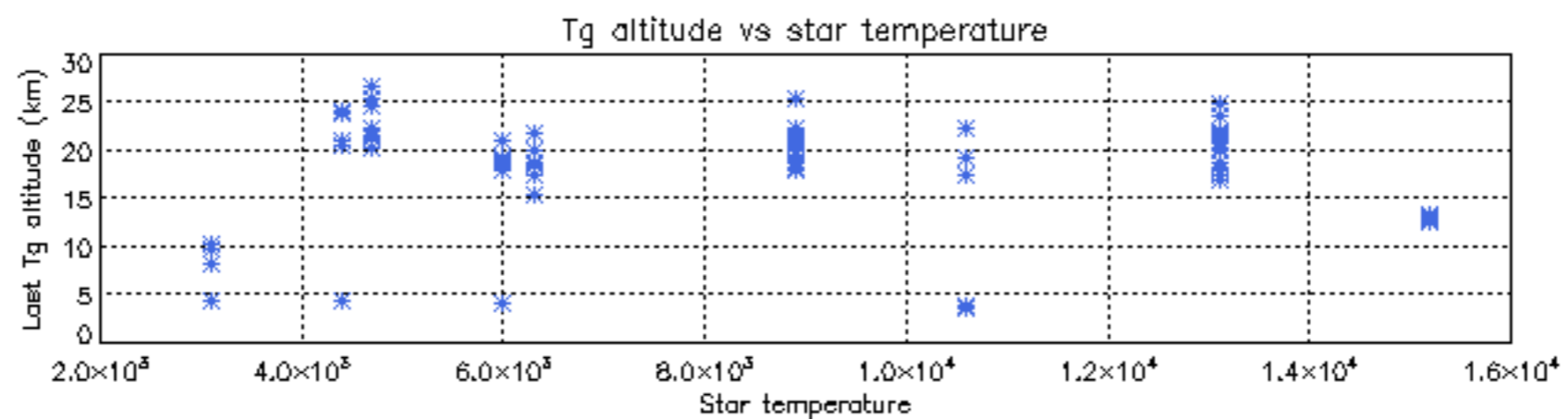
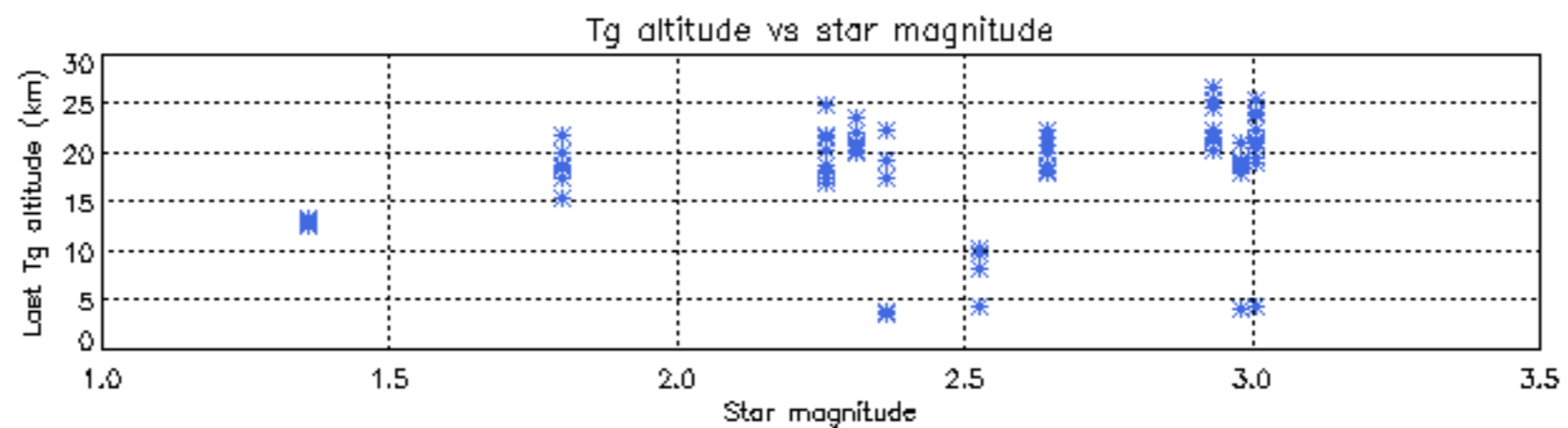
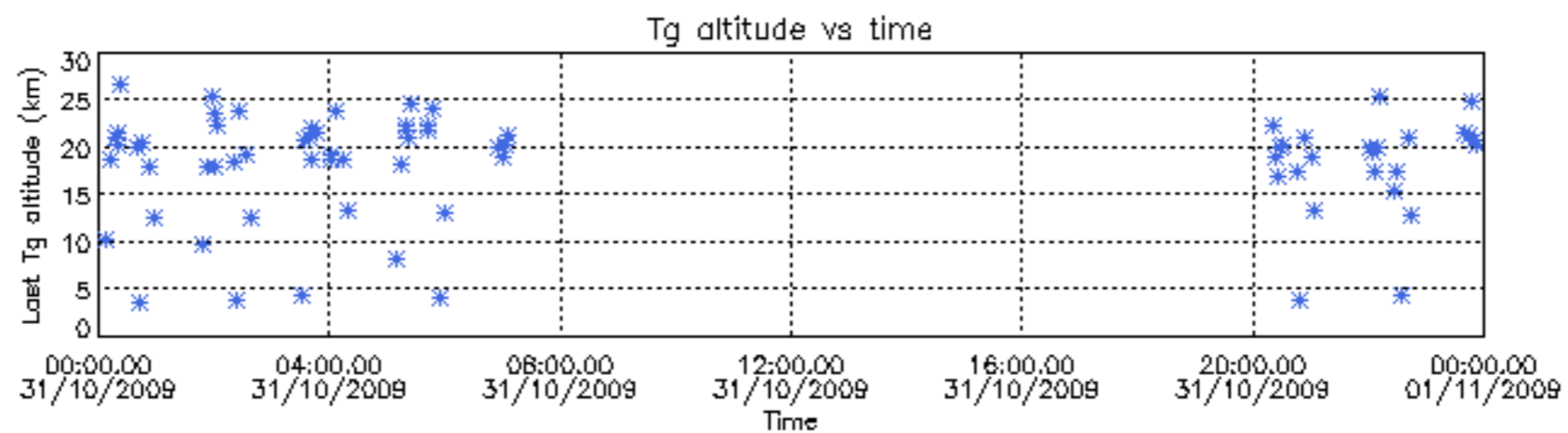
Percentage of saturation errors per profile

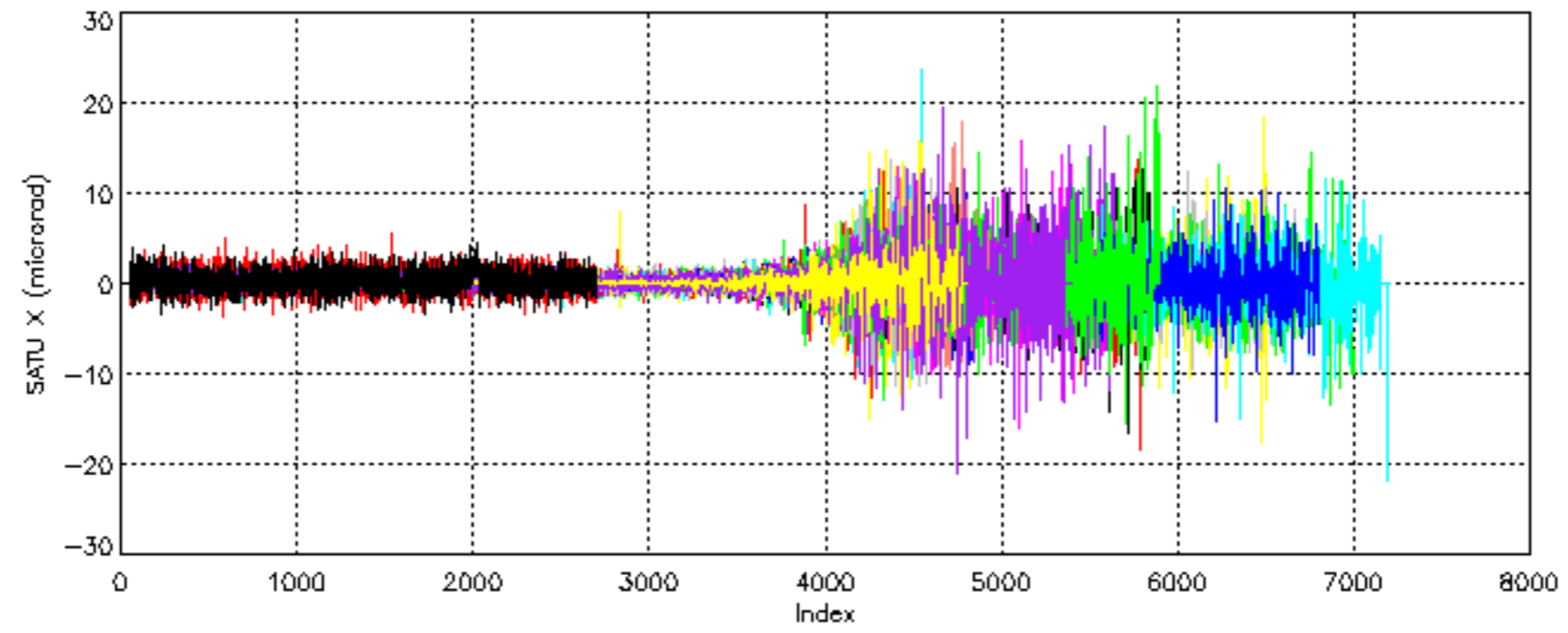


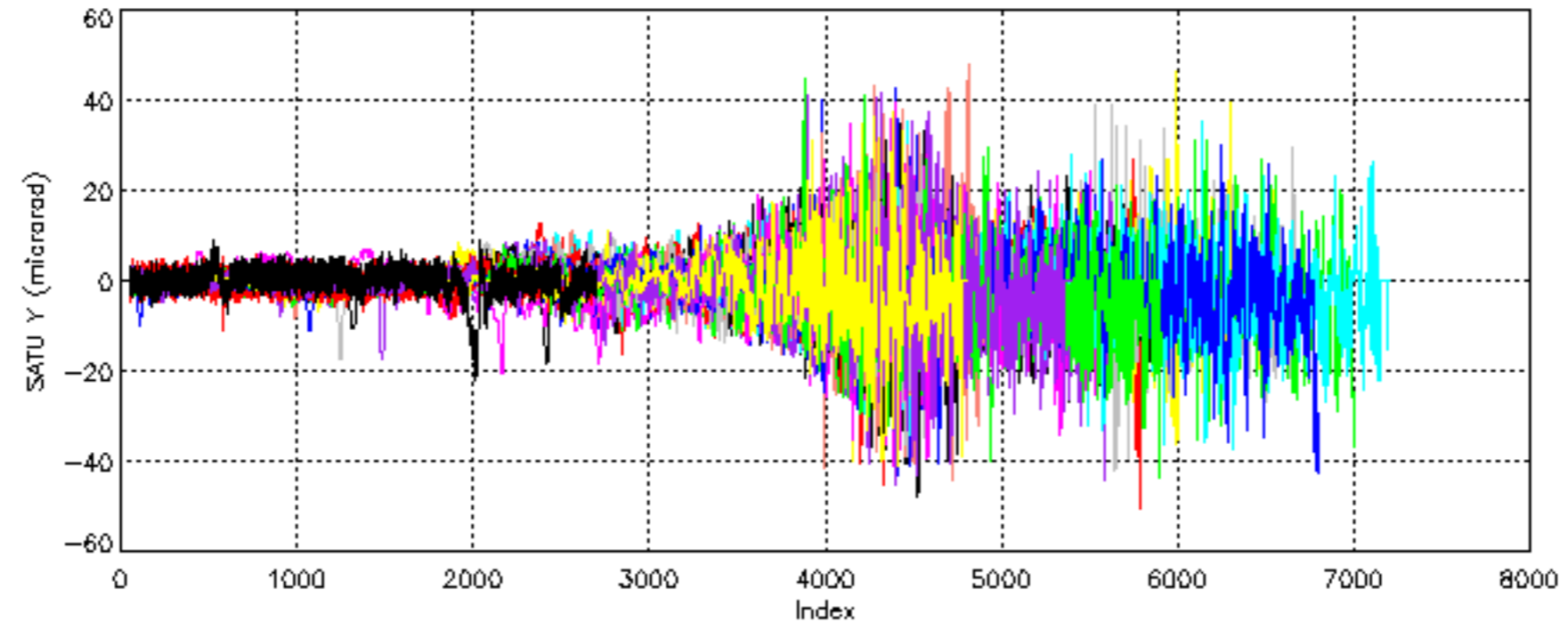
Tangent altitude at which the star is lost

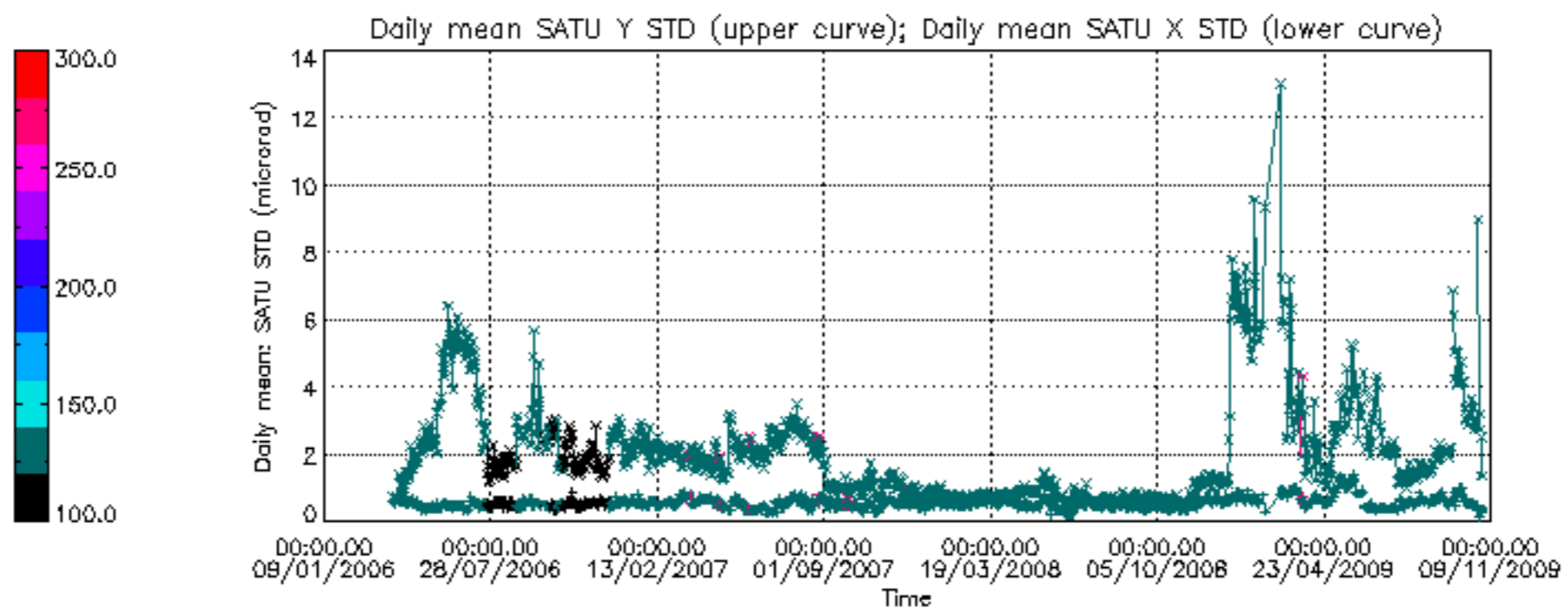


Tangent altitude at which the star is lost









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3; -128.1; 01-OCT-2009 00:15:14; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39663
4; 97.3; 01-OCT-2009 00:18:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39664
5; 305.4; 01-OCT-2009 00:22:27; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39664
6; 915.5; 01-OCT-2009 00:32:37; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39664
7; 1557.3; 01-OCT-2009 00:43:19; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;39664
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9; 2434.7; 01-OCT-2009 00:57:57; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39664
10; 2659.8; 01-OCT-2009 01:01:42; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39664
11; 2945.5; 01-OCT-2009 01:06:27; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39664
12; 3031.5; 01-OCT-2009 01:07:53; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39664
13; 4601.5; 01-OCT-2009 01:34:03; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39664
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2; -231.2; 01-OCT-2009 01:54:07; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39664
3; -126.7; 01-OCT-2009 01:55:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39664
4; 98.5; 01-OCT-2009 01:59:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39665
5; 306.9; 01-OCT-2009 02:03:05; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39665
6; 915.7; 01-OCT-2009 02:13:14; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39665
7; 1557.1; 01-OCT-2009 02:23:55; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39665
8; 2184.6; 01-OCT-2009 02:34:22; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39665
9; 2434.7; 01-OCT-2009 02:38:32; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39665
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11; 2945.0; 01-OCT-2009 02:47:03; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39665
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3; -230.0; 01-OCT-2009 03:34:44; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39665
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5; 99.7; 01-OCT-2009 03:40:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39666
6; 917.1; 01-OCT-2009 03:53:51; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39666
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11; 2944.9; 01-OCT-2009 04:27:39; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39666
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3; -229.1; 01-OCT-2009 05:15:21; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39666
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5; 100.8; 01-OCT-2009 05:20:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39667
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11; 2944.1; 01-OCT-2009 06:08:14; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39667
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4; 2651.9; 01-OCT-2009 21:08:45; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39676
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6; 3026.8; 01-OCT-2009 21:15:00; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39676
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3; -111.3; 01-OCT-2009 22:03:18; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39676
4; 113.2; 01-OCT-2009 22:07:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39677
5; 325.1; 01-OCT-2009 22:10:34; Dark ; 60.5; 108; Alp Col ; 2.65; 15200;occ; 121; 0;39677
6; 925.3; 01-OCT-2009 22:20:34; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;39677
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7; 1558.9; 01-OCT-2009 22:31:08; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39677
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11; 2940.6; 01-OCT-2009 22:54:10; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39677
12; 3026.5; 01-OCT-2009 22:55:36; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39677
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3; -110.2; 01-OCT-2009 23:43:55; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;39677
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7; 918.5; 01-OCT-2009 07:15:04; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39668
8; 1558.4; 01-OCT-2009 07:25:44; Dark ; 33.5; 52; 16Bet Cet ; 2.04; 4500;occ; 67; 0;39668
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7; 5590.7; 01-OCT-2009 08:32:56; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39668
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7; 4603.6; 01-OCT-2009 13:18:17; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39671
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2; 2306.2; 22-OCT-2009 20:02:39; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;39976
3; 2591.6; 22-OCT-2009 20:07:24; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;39976
4; 2709.5; 22-OCT-2009 20:09:22; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;39976
5; 2844.0; 22-OCT-2009 20:11:36; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;39976
6; 3010.3; 22-OCT-2009 20:14:23; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;39976
7; 4662.2; 22-OCT-2009 20:41:55; Bright; 32.0; 166; 17Eps Leo ; 2.98; 6000;occ; 64; 0;39976
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2; 417.8; 22-OCT-2009 16:09:58; Dark ; 37.5; 2; Alp Car ; -0.74; 7000;occ; 75; 0;39974
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6; 3011.8; 22-OCT-2009 16:53:12; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;39974
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7; 4662.0; 22-OCT-2009 19:01:18; Bright; 32.0; 166; 17Eps Leo ; 2.98; 6000;occ; 64; 0;39975
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3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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2; 2686.9; 26-OCT-2009 14:41:19; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40030
3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
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2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
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